In the Claims

Please cancel claims 1-29 and 34-39, amend claim 30 and add new claims 53-55 as follows:

1. - 29. (Cancelled)

30. (Currently Amended) A method of manufacturing a micro-needle structure for penetrating the skin and other tissue barriers, said method comprising:

providing a suitable material from which said micro-needle structure can be fabricated by at least one micro-replication technique;

fabricating said micro-needle structure from said suitable material by said at least one micro-replication technique, wherein said micro-needle structure comprises <u>a conical configuration</u> comprising a proximal end defining a base having a center and a distal end having a vertex comprising a sharp tip, wherein said base has a diameter in the range from about 100 to 2,000 μm and <u>wherein</u> a line extending from said center of the base to said vertex defines a structural axis having a length in the range from about 100 to 10,000 μm; and

forming an open lumen within said micro-needle structure, said open lumen defining a lumenal axis and extending from said base to said vertex, wherein a distal end of said open lumen intersects said vertex and wherein said lumenal axis and said structural axis are not co-axial intersect at an intersection angle.

- 31. (Previously Presented) The method of claim 30, wherein said open lumen is formed during the step of fabricating.
 - 32. (Cancelled)
- 33. (Previously Presented) The method of claim 40 wherein said selectively angled tip comprises a beveled edge.
 - 34. 39. (Cancelled)
- 40. (Previously Presented) The method of claim 30 further comprising forming a selectively angled tip at said vertex.

- 41. (Previously Presented) The method of claim 30 wherein said sutiable material is chosen from the group of a plastic and a resin.
- 42. (Previously Presented) The method of claim 30 wherein said suitable material is chosen from the group of acrylic, polyacrylates, polycarbonate, epoxies, polyesters polyetheretherketone, polyvinylchloride, polyolefins and liquid crystalline polyesters.
- 43. (Previously Presented) The method of claim 41 wherein said at least one microreplication technique comprises injection molding.
- 44. (Previously Presented) The method of claim 30 wherein said suitable material comprises a metal.
- 45. (Previously Presented) The method of claim 30 wherein the diameter of said open lumen is configured to exert a capillary force on a fluid present at said distal end of said open lumen.
- 46. (Previously Presented) A method of manufacturing a micro-needle structure, said method comprising:

providing a plastic material;

fabricating said micro-needle structure by injection molding said plastic material, wherein said micro-needle structure comprises an oblique cone configuration having a base and a vertex comprising a sharp tip; and

forming an open lumen within said micro-needle structure, said open lumen extending from said base to said vertex wherein a distal end of said open lumen intersects said vertex.

- 47. (Previously Presented) The method of claim 46 wherein a line extending from a center of said base to said vertex defines a structural axis, wherein said open lumen defines a lumenal axis, and wherein said lumenal axis and said structural axis are not co-axial.
- 48. (Previously Presented) A method of manufacturing a device comprising a microneedle structure, said method comprising:

providing a suitable material from which said micro-needle structure can be fabricated by at least one micro-replication technique;

fabricating said micro-needle structure from said suitable material by said at least one microreplication technique, wherein said micro-needle structure comprises an oblique cone configuration having a base and a vertex configured for penetrating the skin and other tissue barriers;

forming an open lumen within said micro-needle structure, said open lumen extending from said base to said vertex wherein a distal end of said open lumen intersects said vertex; and

integrating said micro-needle structure with another structure wherein said open lumen is in fluid communication with said other structure.

- 49. (Previously Presented) The method of claim 48, wherein said other structure comprises provided with means for receiving fluid and measuring a constituent of fluid received therein.
- 50. (Previously Presented) The method of claim 48, wherein said other structure comprises a chamber for holding a fluid therein.
- 51. (Previously Presented) The method of claim 50, wherein said fluid is a therapeutic agent.
- 52. (Previously Presented) The method of claim 48, further comprising fabricating a plurality of said micro-needle structures and integrating said plurality with said other structure wherein said open lumen of each said micro-needle structure is in fluid communication with said other structure.
- 53. (New) The method of claim 30, wherein said vertex defines a vertex angle wherein said vertex angle is greater than twice the intersection angle.
 - 54. (New) The method of claim 46, wherein:

said vertex defines a vertex angle;

a line extending from a center of said base to said vertex defines a structural axis;

said open lumen defines a lumenal axis, wherein said lumenal axis and said structural axis intersect at an intersection angle; and

said vertex angle is greater than twice the intersection angle.

55. (New) The method of claim 48, wherein:

said vertex defines a vertex angle;

a line extending from a center of said base to said vertex defines a structural axis; said open lumen defines a lumenal axis, wherein said lumenal axis and said structural axis intersect at an intersection angle; and

said vertex angle is greater than twice the intersection angle.